THE COLLEGE.

REPORT OF THE PRINCIPAL TO THE BOARD OF TRUSTEES FOR YEAR ENDING APRIL 27, 1898.

NUMBER OF STUDENTS.

Undergraduates in Arts (attending)	287
" " (extra-mural)	106
Post-graduates in Arts (attending)	13
General students " (attending)	19
Students in Practical Science Faculty	30
" Theological Faculty	42
" Medical Faculty	111
	608

Or, allowing for double registrations, 589, as compared with 567, 564, 533, 456 and 432 in the five preceding years. Our increase of late has been chiefly in extra-mural students, (who have risen from 38, five years ago, to 106 this year) ; and this is fortunate, as we have not class-room accommodation in Arts for many more than the 319 now attending. To improve the course for the extra-mural students, we are providing tutors in almost every class, who, in return for small fees, correct their essays and exercises and keep them in touch with the work of the classes. The calendar gives information in detail on this point. Whether increased accommodation should be provided ; and if so, whether it should be by erecting a special building for the Theological Faculty, or for a Library and Museum, and then using those large rooms for classes, or whether, in accordance with some better plan, is a large subject and one calling for the fullest consideration by the Trustees and the friends of the University everywhere.

DEGREES CONFERRED.

In Medicine, M.D., C.M.	35
In Theology (Testamurs)	8
In Practical Science (3 B.Sc. ; 2 M.E. ; 1 D.V.S.)	6
In Law (LL.B.)	1
In Arts (66 B.A. ; 14 M.A.)	80
	130

The largest number of degrees ever conferred before was 106, in 1897.

This year three honorary degrees were conferred: in Divinity, on Professor James Ross, B.D., Montreal, and on the Rev. Canon Low, Almonte; and in Laws, on the Right Honourable Sir Wilfrid Laurier, the Prime Minister of Canada.

LOSSES DURING THE SESSION.

Professor David Cunningham, B.A., M.D., was taken away from the staff of the Medical Faculty by an untimely death, early in the session, just as he was giving promise of a distinguished career. This Faculty has lost five men by death in the course of the last five years.

Two years ago I reported that Mr. John Cormack had resigned the janitorship owing to failing health. He, too, was taken from us in the course of the session, and his death leaves a void not easily filled in the hearts of all who knew his sterling worth.

Last year I reported the retirement of the Registrar, the Rev. Dr. George Bell. This perfect gentleman, the first student and first graduate of Queen's, has since been called away to serve in the sanctuary above, to the great grief of every member of the University.

UNIVERSITY EXTENSION.

In giving the number of our students, we do not include those in the affiliated "School of Mining and Agriculture," or in the Dairy School, originated by friends of Queen's, but now managed by the Provincial Government, or those in classes connected with various forms of University extension. The most interesting of these forms is the Summer School, which begins generally about the 1st of July, and is attended chiefly by High School teachers. The subjects to be taken up next July (1898), are Animal Biology, by Professor Knight; Chemistry, by Dr. Lehmann; and Latin and Greek, by Rev. A. B. Nicholson. I subjoin a report by Dr. Goodwin of last summer's course:

THE SUMMER SCHOOL.

The summer school for 1897 was held as before in July, and was attended by fifteen students. Of these four were intra-mural students of the University, residing in Kingston. They took advantage of the summer session to make progress towards an Arts degree. Of the remaining eleven, three studied Chemistry, Mineralogy and Geology as part of an engineering course, while eight were extramural University students studying for Arts degrees. Five of the students were graduates, three of Toronto, one of McGill, and one of Queen's University. The subjects studied were Chemistry, Mineralogy and Geology. Six students took Chemistry alone, seven studied Mineralogy and Geology, and two undertook the three subjects. The work done in each subject was mostly of an advanced character, but an elementary course of lectures on Chemistry was given, chiefly for the purpose of helping teachers to correct methods of presenting the subject.

SCHOLARSHIPS.

The following report from the Treasurer shows what progress is being made with the Fund in honour of the revered Dr. Williamson :—

SUBSCRIPTIONS RECEIVED BY THE TREASUER, J. B. MACIVER, TO THE WILLIAMSON MEMORIAL SCHOLARSHIP FUND SINCE LIST PUBLISHED IN "QUEEN'S QUARTERLY," JULY, 1897.

R. S O'Loughlin, M.A., New York (Further)	$875 00
Lavell & Farrell, Smith's Falls, $100 ; interest paid (two years) ...	12 00
D. B. Maclennan, Q.C., Cornwall ...	25 00
John Duff, Kingston ...	10 00
J. B. McIver, Kingston ...	10 00
George Y. Chown, Kingston ...	10 00
Rev. Robert Campbell, D.D., Montreal, second instalment on $50...	10 00
A. G. McBean, Montreal...	10 00
Andrew Allan " ...	10 00
G. M. Kinghorn " ...	10 00
H. M. Mowat, Toronto...	10 00
Rev. D. Strachan, Brockville ...	10 00
John McEwen, Smith's Falls ...	10 00
Dr. E. McEwen, Carleton Place...	10 00
Andrew Bell, C.E., Almonte, second instalment on $20 ...	7 50
Prof. D. H. Marshall, Kingston...	5 00
D. M. McIntyre " ...	5 00
H. J. Wilkinson " ...	5 00
R. N. McCreary, Carleton Place ...	5 00
Dr. J. V. Anglin, Montreal ...	5 00
Rev. Dr. R. Chambers, Bardezag, Turkey, balance on $10 ...	5 00
Hon. Mr. Justice Bain, Winnipeg ...	5 00
W. D. McIntosh, Carleton Place ...	5 00
Thomas A. Brough, Owen Sound ...	5 00
Rev. J. M. McLean, Blakeney ...	5 00
W. J. Patterson, Carleton Place, balance on $10 ...	5 00

Rev. Thomas Hart, B.D., Winnipeg	5 00
Rev. J. A. Leitch, Watson's Corners, balance on $10	3 00
James Redden, Kingston	3 00
Prof. W. L. Goodwin, Kingston	2 00
Dr. E. Ryan "	2 00
William Mundell "	2 00
Dr. A. P. Chown "	2 00
C. W. Wright "	2 00
R. J. Carson "	2 00
John Laidlaw "	2 00
Rev. J. D. Boyd "	2 00
Rev. James Carmichael, D.D., King	2 00
N. R. Carmichael, M.A. "	2 00
Rev. J. A. Sinclair, Spencerville	2 00
Rev. G. Macarthur, Cardinal	2 00
J. M. Sherlock, Toronto	1 00
Rev. G. Shore, Portsmouth	1 00
Prof. J. Fowler, Kingston	1 00
F. W. Spangenburg "	1 00
R. F. Carmichael, King	1 00
T. McK. Robertson, Kingston	1 00
Rev. David Watson, D.D., Beaverton	10 00

The Treasurer, or the Principal, or Rev. James Cumberland, M.A., Stella, Convener of the Committee, will gladly receive additional subscriptions or suggestions regarding this fund. We have now reached the minimum sum aimed at, viz., $2,500, thanks to the liberality of R. S. O'Loughlin, M.A., New York, who has not forgotten his *Alma Mater* or his old Professor, and we venture to entertain a hope that the Committee's maximum of $5,000 may yet be attained. Such a point is not beyond our ability or the greatness of the man whose memory is being honoured, or the special need of the University in the matter of encouragements to study.

BENEFACTIONS.

The subjoined report by the Treasurer gives a statement of the amounts received during the year ending 2nd April, 1898, on Capital account :

Jubilee Fund	$5,380 00
Account Sir John A. Macdonald Chair, from the Honourable Senator Gowan, LL.D.	500 00
(Making total, with interest, to credit of said Chair, $3,661.80.)	
Williamson Memorial Scholarship Fund	1,163 00
(Making total of this Fund paid in addition to interest being paid on two subscriptions of $100 each, $2,319.70.)	

Gymnasium Building Fund	$1,766 30
(Making total of this Fund, $1,966.30.)	
Fund for new Professor in Theology Subscriptions paid to date	3,067 89
(Out of which $450 was taken to pay Lecturers for past session.)	
Endowment Sarah McLelland Waddell Scholarship ; from Hugh Waddell	3,000 00
Endowment from Robert Waddell Tutorship ; from Hugh Waddell	2.500 00
Endowment Robert Anderson Scholarship ; from executors late Robert Anderson, Montreal	1,800 00

Other benefactions to the revenue for the year are acknowledged in the Treasurer's general "Statement of Revenue and Expenditure," appended to this report.

THE FACULTY OF PRACTICAL SCIENCE AND THE OBSERVATORY.

I commend to the attention of the Board the reports of Prof. Dupuis, Dean of the Faculty and the Observer ; and I trust that when the members of the University who take the QUARTERLY read the extracts from them which are published in the July number, they will be stimulated to give a helping hand to make this new Faculty worthy of the man to whose energy and thought it owes its life and steady growth.

THE FACULTY OF MEDICINE.

One of the great advantages possessed by this Faculty is that the four buildings which concern the students are all contiguous to each other,—the Medical College proper, the John Carruthers Hall, with its admirably equipped chemical laboratories, the Arts building, and the Hospital with its operating theatre. A wing of the hospital was burned down last December, but subscriptions have been given to replace it and to add several improvements, such as special accommodation for consumptive patients, better private wards, and an elevator. By the death of Dr. Cunningham, the Dean has lost a valued assistant, whom it will be difficult to replace. Dr. W. T. Connell's work as Professor of Pathology and Bacteriology proves of increasing interest to the students, and the Faculty is fortunate in having secured such a man to give his whole time to such important subjects.

THE FACULTY OF THEOLOGY.

The Committee appointed by you last year on an additional Professor for this Faculty came to the conclusion that it would be unwise to make any appointment until the endowment for the Chair had been fully secured; and the success of Dr. Smith in obtaining subscriptions did not warrant them in entertaining any hope that the goal would be reached this year. As an interim arrangement, they appointed the Rev. Mr. Scott, of Hespeler, and the Rev. Mr. Laird, of Campbellford, to give special courses of lectures; and they now submit the names of Rev. Mr. Laird, and of Rev. Mr. Falconer, of Truro, N.S., as lecturers for next session, and also the name of Rev. Mr. Jordan, of Strathroy, to give a course on O.T. Exegesis. The payment for these courses is taken from the fund for which Dr. Smith is collecting.

The Conference of the Theological alumni, held last February, was the largest and most successful yet held. The programme for next February is in the April number of the QUEEN'S QUARTERLY. It is expected that all who attend will prepare on at least one of the topics set down for consideration.

CONCLUSION.

I submit the reports of the Treasurer, the Dean of the Faculty of Practical Science, the Observer, the Librarian, the Curator of the Museum, and of the Professors of Botany, Physics, and Animal Biology.

G. M. GRANT, *Principal.*

STATEMENT OF REVENUE AND EXPENDITURE OF QUEEN'S COLLEGE, KINGSTON, FOR THE YEAR ENDING 2ND APRIL, 1898.

Revenue.

Temporalities Board		$ 2,000 00
The Professors, Beneficiaries of the Temporalities Board		625 00
Rent of Carruthers' Hall		1,250 00
Rent of Land		140 00
School of Mining &c., for Lecturer on Mechanism		500 00
School of Mining &c., for Lecturer on Civil Engineering		250 00
Chancellor's Lectureship		250 00
Hugh Waddell, Lectureship on Church History		250 00
The Robert Waddell Tutorship in Physics		150 00
John Roberts Allan, Chair of Botany		150 00
Fees		10,224 96
Interest on Mortgages and other Securities		17,761 32
General Assembly's College Fund—		
Church Agent	$2,196 68	
Congregations contributing directly	959 25	
		3,155 93
Receipts for Scholarships		2,253 04

Interest on Jubilee Subscriptions	$ 3,581 57
Special Subscriptions for Revenue	421 00
Subscriptions for Practical Science Department	300 00
Subscriptions on account of Theological Department	450 00
Balance Deficiency	8,954 54
	$52,667 36

Expenditure.

Deficiency, 1896-7	$ 8,955 17
Salaries—Professors and Lecturers in Theology	7,975 00
" Professors and Tutors in Arts	24,825 00
" Other Officers	2,341 00
Chancellor's Lectureship	250 00
Church Agents Commission on Collections for General Assembly's College Fund—2 years	120 00
Insurance	185 00
Library, Laboratories, Museum, &c.	2,248 83
Practical Science Department	609 49
Taxes, Repairs and Grounds	555 68
Scholarship Account	2,253 04
Travelling Expenses	87 50
Advertising, Printing and Stationery	1,504 62
Fuel, Water, Gas and Electricity	590 15
Contingencies	166 88
	$52,667 36

Queen's College, Kingston, 23rd April, 1898.
Examined and found correct.

J. B. McIVER, *Treasurer.*

J. E. Clark,
D. Callaghan, } *Auditors.*

EXTRACTS FROM REPORT ON PRACTICAL SCIENCE DEPARTMENT.

In presenting the following report on the Faculty of Practical Science, I do so with a considerable degree of satisfaction arising from our past success, and not without some apprehension as to the future.

Remembering that we started in an almost destitute condition as regards accommodation, appliances, teaching power, financial resources, and students, but not destitute of hope and determination, we have every reason to feel grateful for the progress made.

There were twenty-one students working in the shops during the past session, all but six being students in mining, and all but four being freshmen.

The work in carpentry was particularly well done, due to the kindness of Mr. Williamson, one of the best master carpenters of the city, who volunteered his services, and gave a very large portion of his time in overseeing and directing and assisting the students in their work,

Without his services, for which we cannot hope to pay him, I fear that confusion would have reigned supreme in the process of wood-working, for my own time has been so thoroughly occupied that it would have been impossible to have given much of it to this work.

For the machine shop I cannot say so much; for the only instructor, Mr. Jackson, being a student in mechanical engineering, has had so much to do in receiving and digesting instruction, that comparatively little of his time could be given to instructing others. This, however, was not of so much importance, as only a small number of students were engaged in machine work, and I endeavoured to give my spare time to this sub-department rather than to others. I expect the case to be otherwise next year.

It is not necessary to enter into a detailed statement of the work done or of the things made. Suffice it to say that several valuable pieces have been finished or almost finished, and others are far under way. Of these I might mention a screen shaker and several other things for the school of mining, apparatus for the phyiscal, and for the biological departments, a beautiful machine for use in the mechanical department, with various other machines and models.

With an educated mechanical instructor, who could spend his whole time in the workshops, the University might be saved money each year, by having constructed in the shops valuable pieces of physical and other apparatus which are now bought in foreign markets at a high price.

It is satisfactory to know that so far, with the exception of the purchase price of new machines (and these are there for years to come), the workshops have been self-supporting, *i.e.*, the fees have paid the running expenses.

This is due to the circumstance that very little has been paid for salaries, the work of the shops being done almost gratuitously, or by those who are ostensibly paid for doing other work, and who voluntarily extend their services by giving time and attention to the wants of the shops.

Besides, the cost of heating is remarkably little. The consumption of coal for the whole session is only about nine tons, and upwards of half of this was required to heat water for the baths in connection with the gymnasium.

The janitor's salary is the principal item of expense, amounting tc about $130 for the session ; and he attends to the gymnasium as well as the shops.

Having had now two years in the new building, I can pronounce it a most convenient and suitable building, and one that gives a remarkable amount of accommodation for its size. There is just one inconvenience about it, and that is the gymnasium overhead.

Although the building is constructed in the strongest possible manner for the material entering it, yet during gymnasium hours the strain on the building is very great, so much so as to shake articles off the shelves in the shops beneath ; and how long the building will endure, without permanent injury, the violent athletics, for one can scarcely call it gymnastics, on its second floor is a question. This matter will probably, however, cure itself in time, for if things progress at their present rate, it will not be long before the whole building will be required for laboratory purposes.

As to the work of Mr. Carmichael and myself, we carry on, not only the large and heavy department of mathematics, but nearly all the mathematical side of the engineering courses as well. During the past session I have had to lecture from twelve to thirteen hours a week upon mathematical subjects Besides, I devise and design and sketch every piece of work, simple or complex, that is carried out in the workshops, and examine and correct every drawing for the same.

In addition, I have managed to give, on an average, almost two or three hours daily to superintending the work going on ; but this time I look upon as my recreation.

Nor is my assistant much better off. For, besides giving me a due amount of aid in the purely mathematical classes, he has had to lecture on electric theory, on electric machines, and on thermodynamics in theory and practice, besides attending to a great many other smaller, but not less important things.

The present state of affairs is due to the poverty of the College, and I certainly sympathise with the Trustees in their efforts to carry on a large and expanding institution. growing in every part except its revenue, and that, like the proverbial cow's tail, seems to be growing downwards.

I think, then, that there is no difficulty in seeing in what direction we need pecuniary aid.

One of the great needs which will become pressing in the near future is a thoroughly competent professor of Modern Engineering. Not merely a man who can build a railway or a canal, for such things are not classed with high-class engineering in the present day, but a man like the late J. MacQuorn Rankine, who is sufficiently versed in the underlying principles of mathematics and physics to work out and see clearly the *modus operandi* of all the great machines and constructions and processes which have been brought to such a degree of perfection during the last twenty-five or thirty years.

Another desideratum is a thoroughly good and commodious physical laboratory, in which experimentation may be conveniently and profitably carried out on problems connected, among other things, with the great subjects of electricity and heat and light.

A sufficiently good building, of the character of the gymnasium, to be brick-veneered when practicable, could be built for $2,500 or $3,000. And my feelings are that I certainly would not hesitate to build in wood when funds were not forthcoming to build in stone, and accommodation was a necessity.

N. F. DUPUIS, *Dean of Practical Science Faculty.*

THE OBSERVATORY.

Previous to the death of Dr. Williamson the Department of Astronomy, together with the Observatory, was under his charge. Since his death matters have been changed by the opening of the Practical Science department and the more thorough study of astronomy as an essential part of the honour courses in Mathematics and Physics, as well as well as in some of the Practical Science courses.

It is for these reasons that the Observatory must be of much more importance to us in the future than it has been in the past, and it becomes essential therefore that we should render it as efficient as our means will allow.

The Legislature at Ottawa for insufficient reasons—in fact for no reasons—withdrew the annual grant of $500, which the Observatory had enjoyed for more than 30 years. A promise has been given that it will be re-established next year.

The building of the Carruthers Hall in its present position has interfered with the usefulness of the Observatory, as it has cut off our view of the eastern sky, the view which is usually of the most importance; and I would suggest that in case of the grant being re-established, some portion of it may be applied to moving the Observatory building westward along the grounds to the rocky ledge bordering on University Avenue.

This would give a much clearer view of the heavens, and furnish the firmest possible foundation for instruments, and in that position it would not be likely to be disturbed by new buildings for generations to come.

I have, since the death of Dr. Williamson, been placed in the calendar of the University as Director of the Observatory. I have to use the Observatory continually in connection with my students, and I have no serious objection to remain as Director if I can have an assistant to act as observer.

Our revered and lamented friend lost his life through a mistaken over-devotion to the Observatory, forgetting that night-work with exposures to the frigid atmosphere of a Canadian winter, with impunity, is a privilege granted only to the young. And although I am his successor in many respects, I do not propose to go and do likewise.

I was in hopes that we might secure the services of Mr. S. A. Mitchell, M.A., one of our graduates, who is distinguishing himself in astronomy at Johns Hopkins University, and whose help would be acceptable in many ways in the expanding mathematical and scientific work at Queen's; but in our straightened circumstances that is scarcely to be looked for.

I would therefore suggest that Mr. Norman R. Carmichael, my present assistant in mathematics, be appointed astronomical observer, or rather astronomical as-assistant, and between the two of us we may be able to do the necessary work.

N. F. DUPUIS.

THE LIBRARY.

During the past year 916 volumes have been added to the Library, made up as follows:—Purchased, 630; donated, 164; bound periodicals and pamphlets, 122.

Abstract of financial statement from Auditors' Report to 23rd October, 1897:—

Total Expenditure	$1,541 16
Total Receipts	1,507 00
Deficit	$34 16

Last year's deficit of $215.85 has thus been nearly paid off.

Upon recommendation by the Curators of the Library, the Senate thought it advisable to obtain, if possible, a permanent assistant for the librarian. Part of the duties of that position have been performed for the past few years by a post-graduate student holding the Nicholls Foundation Scholarship. The University is to be congratulated upon having secured the services of Miss Lois Saunders as assistant librarian. Miss Saunders possesses in a marked degree the rather unusual combination of attainments and qualities required in one holding such a position.

ADAM SHORTT, *Librarian.*

THE MUSEUM.

During recent years all new mineralogical and palæontological specimens have been deposited in the School of Mining.

The zoological department has received a mounted specimen of a young Newfoundland seal from Mr. James Lee, and a fine American eagle and loon from Mr. McKelvey. Last year's report stated that a large number of botanical specimens had been received during the previous winter. The greater part of the summer vacation was employed in mounting and arranging these, and they are now available for study when required. Within the last few weeks between 600 and 700 specimens have been received from unexpected quarters. Over 400, mostly Fungi, are from Prof. Paul Magnus, Berlin, and 200 from the Biltmore Herbarium, Biltmore, North Carolina. J. Medley Wood, Government Botanist, Durban, Natal, South Africa, has also informed me that he intends sending a package immediately. All these collections have been sent with a request to exchange. The mounting and arranging of the specimens on hand, the selecting of duplicates for exchange and the preparation of the bundles will involve a large amount of labour and consume all my available time in summer. A number of specimens of Cryptogams have also been received from Dr. A. T. Drummond.

JAMES FOWLER, *Curator.*

BOTANY CLASSES.

Students enrolled in Junior Botany class............	21
" " First Year Honour class........	5
" " Second Year Honour class......	9
	35

Last summer I accompanied the students in botany residing in Kingston on a series of botanical excursions to different localities in the neighborhood. We succeeded in securing a large number of specimens, all of which have been handed over to the College. Much useful material was thus obtained for class work during the session and for the practical examinations at the close. Consequently, a larger amount of practical work was accomplished by the Junior class than in any previous year. Junior students have no idea of what they require, and cannot collect or prepare useful specimens.

All the members of the First Year Honour class brought collections of plants, which proved useful for themselves and for the Junior class.

The work in the Second Year Honour class, before the vacation, was divided between the Cyperaceæ, Gramineæ and Vascular Cryptogams, a month being devoted to each division. During the latter half of the session the Algæ, Fungi including Lichens, and the Musci were taken up for equal periods. All the students furnished bundles of plants, which were useful for the other classes, but of no service to themselves. Like the Juniors, they do not know what they require, and only discover their "wants" as the work of the session advances.

In last year's report reference was made to the fact that the supply of specimens for the use of the class was utterly inadequate, and that additional materials were required. A few specimens were collected during summer in the neighborhood of the city; some were purchased, and others donated by friends, but the number was not sufficient. At present our supply for the first three months of the session is exhausted and must be renewed. The Cyperaceæ, Gramineæ and Pteridophyta I must collect myself, and to do so must visit localities where forests occur. A grant of $30 would probably cover the necessary expenses.

I desire earnestly to call attention to the fact that the Laboratory is too small. When the table is surrounded by seven or eight students, with their microscopes and books, no room remains for necessary materials. Each student requires a space allotted to himself, where he can arrange his specimens without interfering with others. This is at present impossible. The light is also defective, and on dark days microscopic work cannot be satisfactorily performed.

JAMES FOWLER.

The John Roberts Allen Professor of Botany.

PHYSICS.

Herewith is an account of expenditure in connection with the Physics Department and the balance still in hand. You will observe in the account that $142 was lent to Prof. Ferguson to purchase special books for the library; $16 paid to the same to procure maps for his lectures; $20 to W. C. Baker, M.A., to attend the meeting of the British Association last August; $100 towards Mr. Baker's salary; and $193.58 to purchase apparatus for Mr. Carmichael in connection with his lectures on electrical engineering. There were eighteen students who paid fees to attend the laboratory. I think it would be proper on the part of the trustees to allow these laboratory fees to be paid over in future by the Registrar to Mr. Baker, who attends to the laboratory students, and who has shown great enthusiasm in his work. He has now been with me three years, and his greater experience should command more remuneration. I enclose his detailed report of work done during the past session. Besides his work in the Arts Faculty, he had a class during the first term of the session for medical students.

Physical Laboratory Account for year ending 1st April, 1898.

Expenditure.

Salary of Demonstrator	$100 00
His Expenses attending British Association	20 00
For Maps in History Class-room	16 00
Loan to Prof. Ferguson for special collection of books	142 00
Two cases storage batteries	25 55
Three Voltmeters (Electrical Engineering)	157 50
Repairs, cleaning and instruments	38 11
Balance in hand	164 70
	$663 86

Receipts.

Balance, 1st April, 1897	$366 45
Apparatus Fees from Treasurer	293 00
Interest	4 41
	$663 86

D. H. Marshall, *Professor of Physics.*

ANIMAL BIOLOGY.

The total registered attendance in this department during the past session was 104, not including six or eight third year medical students who voluntarily attended the second year physiology for a second time.

The attendance in the pass class in Arts numbered 16; extra-murals, 4; in first year honours, 6; extra-murals, 2; in second year honours, 10.

In medicine the attendance in first year classes numbered 31; in second year classes, 24; veterinary students, 11.

The following is an abstract statement of the receipts and expenditure in connection with the Laboratory:—

Receipts.

Laboratory Fees from Arts Students	$202 00
Laboratory Fees, Medicals	112 00
Advanced by me	42 14
	$356 14

Disbursements.

Balance Overdrawn	$ 58 45
Wages	67 50
Apparatus, &c.	185 10
Dissecting material and sundries	45 09
	$356 14

As usual, vouchers for the various payments will be sent to the College Treasurer.

It was pointed out in last year's report that one of the pressing wants of this department was of books of reference. Until we have the books, and the complete sets of magazines, containing the records of past researches in various branches of biology, we cannot begin research work with our advanced students. Although I have been on the look-out during the past two years for copies of such books in the lists of the second-hand dealers, I have noticed none that we could afford to buy. This spring 51 bound volumes of the publications of the Microscopical Society of London were offered for sale at £27 10s., and after consultation with the curators and the librarian, it was decided to order them, but we do not know whether we shall get them or not. As an alternative, we have filed an order for a complete set of the *Journal of Physiology*. Complete sets of *Zeitschrift fur wissen schaftliche Zoologie*, and of *Zoologischer Anzeiger*, are at present available in Leipsig for 3,685 marks ($920). It would be very desirable to obtain these.

The volumes of *Lancet* should be brought up to date; and complete sets of the *Journal of Anatomy and Physiology*, *Journal of Morphology* and other standard biological publications added as opportunity offers.

On account of the large expenditure on apparatus and dissecting material last year, it was found impossible to increase our museum specimens, but I hope to do something in this direction during the approaching summer. There is very little room left for specimens in the medical museum, but before this limited space is filled the medical faculty or graduates may erect a building which will enable us to unify all our biological teaching, including museum and anatomy work in one building. Good organisation suggests that this should be done as soon as possible, and done in such a way as to admit of natural expansion in the future, and without waste of space and money.

I have pleasure in acknowledging the receipt of the following donations to the Laboratory :—

1. Charts of the anatomy of the human body, from Mr. J. W. Barton, Secretary Young Men's Christian Association, Kingston.

2. Two trays for lantern slides, from Prof. Dupuis. These were made in the University work-shop.

3. Chemicals, from Prof. Goodwin, Director School of Mining.

4. Nose-piece for microscope, from Principal Frith, Pickering College.

5. An acetylene gas machine for furnishing gas for the lantern. Given by the Acetylene Gas Machine Co., of Niagara Falls, Ont.

A. P. Knight.

The John Roberts Professor of Animal Biology,